

Title (en)

METHOD FOR OPERATING PLANT FOR PRODUCING MIXED-GAS HYDRATE

Title (de)

VERFAHREN ZUM BETREIBEN EINER ANLAGE ZUR HERSTELLUNG EINES MISCHGASHYDRATS

Title (fr)

PROCÉDÉ DE FONCTIONNEMENT D'UNE USINE DE PRODUCTION D'UN HYDRATE DE GAZ MIXTE

Publication

**EP 2500403 A4 20130417 (EN)**

Application

**EP 10829939 A 20101109**

Priority

- JP 2009259469 A 20091113
- JP 2010069960 W 20101109

Abstract (en)

[origin: EP2500403A1] The operation of a plant for producing a gas hydrate is stabilized by making the gas phase within a downstream step have the same equilibrium composition as that of the gas phase within a generation step. The gas phase within a mixed-gas hydrate generation step is circulated to the gas phase within a downstream step located downstream of the mixed-gas hydrate generation step, and the gas phase within each step is thereby made to have the same equilibrium composition as that of the gas phase within the generation step.

IPC 8 full level

**C10L 3/06** (2006.01); **B01J 3/00** (2006.01); **C10L 3/10** (2006.01); **F17C 11/00** (2006.01)

CPC (source: EP US)

**C10L 3/06** (2013.01 - EP US); **C10L 3/108** (2013.01 - EP US); **F17C 11/007** (2013.01 - EP US)

Citation (search report)

- [XY] JP 2008248192 A 20081016 - MITSUI SHIPBUILDING ENG
- [YD] JP 2008248190 A 20081016 - MITSUI SHIPBUILDING ENG
- [X] JP 2005320454 A 20051117 - MITSUI SHIPBUILDING ENG
- [XI] EP 1956071 A1 20080813 - MITSUI SHIPBUILDING ENG [JP]
- [X] US 2004143145 A1 20040722 - SERVIO PHILLIP D [CA], et al
- See references of WO 2011058980A1

Cited by

CN104437290A; FR3062657A1; WO2018141950A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

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DOCDB simple family (application)

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